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OM protein - protein search, using sw model

Run on: August 9, 2003, 16:11:13 ; Search time 45.2571 Seconds
(without alignments)
56.115 Million cell updates/sec

Title: US-09-905-691-4

Perfect score: 16

Sequence: 1 ARRAARAARRARA 16

Scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

Searched: 1107863 seqs, 158746573 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

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- 2: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1981.DAT.*
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- 21: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2000.DAT.*
- 22: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2001.DAT.*
- 23: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2002.DAT.*
- 24: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2003.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	16	100.0	16	23	Peptide Tris-Arg H
2	16	100.0	19	21	Heparin binding pe
3	16	100.0	19	23	Peptide Bis-Arg He
4	15	93.8	15	23	Peptide Arg Helix
5	9	56.2	19	21	Heparin binding pe
6	9	56.2	92	20	M. tuberculosis an
7	9	56.2	20	AA139036	M. tuberculosis re
8	9	56.2	105	23	M. tuberculosis an
9	9	56.2	160	20	M. tuberculosis an

10	9	56.2	160	20	AA139043	M. tuberculosis re
11	8	50.0	15	21	AAU08179	Peptide modulating
12	8	50.0	71	22	AAU46667	Propionibacterium
13	8	50.0	262	23	ABJ10474	Breast cancer - CA
14	8	50.0	262	23	AAU10338	Novel human CASB74
15	8	50.0	262	24	AAE33614	Human CASB7439 pro
16	8	50.0	272	22	AAU49513	Propionibacterium
17	8	50.0	361	23	AAU10339	Novel human CASB74
18	8	50.0	617	22	AAU51578	Propionibacterium
19	7	43.8	11	20	AA125078	Transduction prote
20	7	43.8	11	21	AA129419	Synthetic transduc
21	7	43.8	11	21	AA133547	Amino acid sequenc
22	7	43.8	11	22	AAE05278	Human immunodefici
23	7	43.8	11	23	AAU76085	Peptide transport
24	7	43.8	11	24	ABP56078	Protein transducti
25	7	43.8	19	19	AAW1503	Heparin binding pe
26	7	43.8	19	21	AA187836	Heparin binding pe
27	7	43.8	19	23	AA171429	Peptide Bis-Arg He
28	7	43.8	21	19	AAW1506	Heparin binding pe
29	7	43.8	21	21	AA187839	Heparin binding pe
30	7	43.8	21	24	ABU07934	H. influenzae Hap
31	7	43.8	47	20	AA141497	Fragment of human
32	7	43.8	59	22	AAU61928	Propionibacterium
33	7	43.8	94	21	AA189963	Zea mays protein f
34	7	43.8	107	22	AAU30650	Novel human secret
35	7	43.8	120	22	AA176872	Human lung tumour
36	7	43.8	120	23	AAU85527	L801P lung tumour
37	7	43.8	120	24	ABU89499	Human lung cancer-
38	7	43.8	120	24	ABU66401	Lung cancer therap
39	7	43.8	121	21	AA142466	Human ORFX ORF230
40	7	43.8	124	23	ABG60198	Human D1THP polype
41	7	43.8	161	23	ABP41851	Human ovarian anti
42	7	43.8	162	21	AA126000	Zea mays protein f
43	7	43.8	202	22	ABG08277	Novel human diagno
44	7	43.8	205	20	AA141495	Fragment of human
45	7	43.8	240	21	AA142380	Human ORFX ORF2144

ALIGNMENTS

RESULT 1

AA171430
ID AAB71430 standard; peptide; 16 AA.

XX AAB71430;

AC AAB71430;

XX 27-NOV-2002 (first entry)

DT Peptide Tris-Arg Helix #3 fragment.

DE Sepsis; branched chain peptide; antibacterial; immunosuppressive;

DE endotoxin; helix peptide.

XX Synthetic.

OS Synthetic.

XX Key

XX Modified-site

XX Location/Qualifiers

XX 16

XX /note= "Ala is modified by unidentified R1 group"

XX EPI232754-A2.

XX 21-AUG-2002.

XX 14-FEB-2002; 2002EP-0251027.

XX 14-FEB-2001; 2001US-268410P.

XX (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC.

XX Harris RB, Wolz RL, Wolz G;

XX WPI; 2002-659478/71.

XX Use of cationic helix peptides for treatment of sepsis and for the
 PT detection and removal of endotoxins
 XX Disclosure; Fig 1B; 18pp; English.
 XX
 CC This invention describes a novel use of antibacterial and
 CC immunosuppressive peptides designated Arg Helix 2, Bis Arg Helix 2,
 CC Tetra-Arg Helix 2 or Tris-Arg Helix 3 for the manufacture of a medicament
 CC for the treatment of sepsis and the detection and removal of endotoxins.
 CC The peptides of the invention are used in a method for detecting
 CC endotoxin in a sample comprising contacting the sample with a labelled
 CC helix peptide and then detecting the presence of any labelled molecule
 CC bound to endotoxin. The peptides can also be used in a method for
 CC removing endotoxin in a sample which comprises exposing the sample to a
 CC helix peptide, bound to a solid support, then collecting the sample. The
 CC endotoxin removal may be in vivo, or the peptides may be used to form an
 CC affinity trap for endotoxins in e.g. dialysis-type treatments, or for
 CC removal of endotoxins from plasma fractionation products. They are also
 CC used as model frameworks for endotoxin binding from which new analogues
 CC may be designed. This sequence represents the peptide Arg Helix #3 which
 CC is used in the construction of Tris-Arg Helix #3, a branched chain
 CC peptide described in the method of the invention.

SQ Sequence 16 AA;

Query Match 100.0%; Score 16; DB 23; Length 16;
 Best Local Similarity 100.0%; Pred. No. 1.2e-07;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ARRAAARARRARAE 16
 |||||
 DB 1 ARRAAARARRARAE 16

RESULT 2

AA87840
 ID AAY87840 standard; peptide; 19 AA.

XX AAY87840;

AC AAY87840;

DT 01-SEP-2000 (first entry)

XX Heparin binding peptide Bis-Arg helix #2.

XX Heparin binding peptide; antagonist; cardiovascular; coagulant;
 KW bleeding wound; vascular anastomoses; leaking prosthetic vascular graft;
 KW protamine substitute; treatment.

XX Synthetic.

OS EP999219-A2.

PN 10-MAY-2000.

PD 01-OCT-1999; 99EP-0119514.

PF 06-OCT-1998; 98US-0166930.

PR (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC.

PA Harris RB, Sobel M;

PI WPI; 2000-306006/27.

XX New heparin binding molecules, useful for reducing heparin content in a
 PT mammal by reducing the anticoagulant effects of heparin -
 XX Example 1; Fig 1a; 39pp; English.

PS This invention describes novel heparin binding molecules (I). The

CC molecules (I) are useful as heparin antagonist drugs for cardiovascular
 CC application and specifically neutralize heparin's conventional

CC anticoagulant properties. (I) are also useful for counteracting actions
 CC of heparin locally e.g. in bleeding wounds, vascular anastomoses or
 CC leaking prosthetic vascular grafts. (I) is also useful combined in a
 CC pharmaceutical composition with insulin, as a substitute for protamine
 CC for use in treating diabetics. The heparin binding molecules (I)
 CC specifically neutralize heparin's conventional anticoagulant properties
 CC without causing deleterious hemodynamic side-effects or exacerbation of
 CC the proliferative vascular response to injury. (I) are short-duration,
 CC intravenous drugs to be used in elective or emergency situations which
 CC can safely and specifically neutralize heparin's proliferative response
 CC to injury. This sequence represents a heparin-binding peptide described
 CC in the method of the invention.

SQ Sequence 19 AA;

Query Match 100.0%; Score 16; DB 21; Length 19;

Best Local Similarity 100.0%; Pred. No. 1.4e-07;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ARRAAARARRARAE 16

|||||

DB 4 ARRAAARARRARAE 19

RESULT 3

AA871428

ID AAB71428 standard; peptide; 19 AA.

XX AAB71428;

AC AAB71428;

DT 27-NOV-2002 (first entry)

XX Peptide Bis-Arg Helix #2 fragment #1.

XX Sepsis; branched chain peptide; antibacterial; immunosuppressive;

KW endotoxin; helix peptide.

XX Synthetic.

FT Key Location/Qualifiers

FT Modified-site 19

FT /note- "Ala is modified by unidentified R1 group"

XX EP1232754-A2.

XX 21-AUG-2002.

PF 14-FEB-2002; 2002EP-0251027.

XX 14-FEB-2001; 2001US-368410P.

XX (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC.

PA Harris RB, Wolz RL, Wolz G;

PI WPI; 2002-659478/71.

XX Use of cationic helix peptides for treatment of sepsis and for the
 PT detection and removal of endotoxins -
 PT Disclosure; Fig 1A; 18pp; English.

PS This invention describes a novel use of antibacterial and

CC immunosuppressive peptides designated Arg Helix 2, Bis Arg Helix 2,

CC Tetra-Arg Helix 2 or Tris-Arg Helix 3 for the manufacture of a medicament

CC for the treatment of sepsis and the detection and removal of endotoxins.

CC The peptides of the invention are used in a method for detecting

CC endotoxin in a sample comprising contacting the sample with a labelled

CC helix peptide and then detecting the presence of any labelled molecule

CC bound to endotoxin. The peptides can also be used in a method for

CC removing endotoxin in a sample which comprises exposing the sample to a

CC helix peptide, bound to a solid support, then collecting the sample. The

CC endotoxin removal may be in vivo, or the peptides may be used to form an

CC affinity trap for endotoxins in e.g. dialysis-type treatments, or for
 CC removal of endotoxins from plasma fractionation products. They are also
 CC used as model frameworks for endotoxin binding from which new analogues
 CC may be designed. This sequence represents the peptide Arg Helix #2 which
 CC is used in the construction of Bis-Arg Helix #2, a branched chain peptide
 CC described in the method of the invention.

XX
 XX Sequence 19 AA;
 Query Match 100.0%; Score 16; DB 23; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.4e-07;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ARRAARAARRARAEEA 16
 DB 4 ARRAARAARRARAEEA 19
 |||||

RESULT 4
 AAB71432
 ID AAB71432 standard; peptide; 15 AA.
 XX AC
 XX AAB71432;
 DT 27-NOV-2002 (first entry)
 XX
 DE Peptide Arg Helix #3 for construction of Tris-Arg helix #3.
 XX
 KW Sepsis; branched chain peptide; antibacterial; immunosuppressive;
 KW endotoxin; helix peptide.
 XX
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
 FT Modified-site 1
 FT /note- "This residue has a side chain
 FT C(O)-NepsiloneH-(CH2)3-Tris-ArgHel#3, where
 FT the Tris-ArgHel#3 is represented in AAB71431"
 FT Modified-site 16
 FT /note- "Acylated residue"
 XX
 XX EP1232754-A2.
 XX
 PD 21-AUG-2002.
 XX
 XX 14-FEB-2002; 2002EP-0251027.
 XX
 XX 14-FEB-2001; 2001US-268410P.
 XX
 XX (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC.
 XX
 XX Harris RB, Wolz RL, Wolz G;
 XX WPI; 2002-659478/71.
 XX
 XX Use of cationic helix peptides for treatment of sepsis and for the
 XX detection and removal of endotoxins
 XX
 XX Disclosure; Fig 2; 18pp; English.

CC This invention describes a novel use of antibacterial and
 CC immunosuppressive peptides designated Arg Helix 2, Bis Arg Helix 2,
 CC Tetra-Arg Helix 2 or Tris-Arg Helix 3 for the manufacture of a medicament
 CC for the treatment of sepsis and the detection and removal of endotoxins.
 CC The peptides of the invention are used in a method for detecting
 CC endotoxin in a sample comprising contacting the sample with a labelled
 CC helix peptide and then detecting the presence of any labelled molecule
 CC bound to endotoxin. The peptides can also be used in a method for
 CC removing endotoxin in a sample which comprises exposing the sample to a
 CC helix peptide, bound to a solid support, then collecting the sample. The
 CC endotoxin removal may be in vivo, or the peptides may be used to form an
 CC affinity trap for endotoxins in e.g. dialysis-type treatments, or for
 CC removal of endotoxins from plasma fractionation products. They are also

CC used as model frameworks for endotoxin binding from which new analogues
 CC may be designed. This sequence represents the peptide Arg Helix #3 which
 CC is used in the construction of the branched chain peptide Tris-Arg Helix
 CC #3 described in the method of the invention.

XX
 XX Sequence 15 AA;
 Query Match 93.8%; Score 15; DB 23; Length 15;
 Best Local Similarity 100.0%; Pred. No. 8.5e-07;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 RRAARAARRARAEEA 16
 DB 1 RRAARAARRARAEEA 15
 |||||

RESULT 5
 AAY87834
 ID AAY87834 standard; peptide; 19 AA.
 XX AC
 XX AAY87834;
 DT 01-SEP-2000 (first entry)
 XX
 DE Heparin binding peptide Arg helix #1.
 XX
 KW Heparin binding peptide; antagonist; cardiovascular; coagulant;
 KW bleeding wound; vascular anastomoses; leaking prosthetic vascular graft;
 KW protamine substitute; treatment.
 XX
 OS Synthetic.
 XX
 PN EP999219-A2.
 XX
 PD 10-MAY-2000.
 XX
 PF 01-OCT-1999; 99EP-0119514.
 XX
 PR 06-OCT-1998; 98US-0166930.
 XX
 XX (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC.
 XX
 XX Harris RB, Sobel M;
 XX WPI; 2000-306006/27.
 XX
 XX New heparin binding molecules, useful for reducing heparin content in a
 XX mammal by reducing the anticoagulant effects of heparin -
 XX
 XX Example 1; Page 7; 39pp; English.

CC This invention describes novel heparin binding molecules (I). The
 CC molecules (I) are useful as heparin antagonist drugs for cardiovascular
 CC application and specifically neutralize heparin's conventional
 CC anticoagulant properties. (I) are also useful for counteracting actions
 CC of heparin locally e.g. in bleeding wounds, vascular anastomoses or
 CC leaking prosthetic vascular grafts. (I) is also useful combined in a
 CC pharmaceutical composition with insulin, as a substitute for protamine
 CC for use in treating diabetics. The heparin binding molecules (I)
 CC specifically neutralize heparin's conventional anticoagulant properties
 CC without causing deleterious hemodynamic side-effects or exacerbation of
 CC the proliferative vascular response to injury. (I) are short-duration,
 CC intravenous drugs to be used in elective or emergency situations which
 CC can safely and specifically neutralize heparin's proliferative response
 CC to injury. This sequence represents a heparin-binding peptide described
 CC in the method of the invention.

XX Sequence 19 AA;
 Query Match 56.2%; Score 9; DB 21; Length 19;
 Best Local Similarity 100.0%; Pred. No. 0.15;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AARAAARAE 12
 DE |||||
 Db 4 AARAAARAE 12

RESULT 6

AAAY39179
 ID AAAY39179 standard; Protein; 92 AA.

XX AC
 XX AAAY39179;
 XX 05-NOV-1999 (first entry)
 XX

DE M. tuberculosis antigen 5' MO-4 amino acid sequence.

XX Mycobacterium tuberculosis; M. tuberculosis; antigen; immunogen;
 KW immunotherapy; diagnosis; immunisation; vaccine; infection;
 KW immune response; skin test.

XX Mycobacterium tuberculosis.

XX WO9942076-A2.

XX 26-AUG-1999.

XX 17-FEB-1999; 99WO-US03268.

XX 05-MAY-1998; 98US-0072967.

XX 18-FEB-1998; 98US-0025197.

XX (CORI-) CORIXA CORP.

XX Campos-Neto A, Dillon DC, Hendrickson RC, Houghton R;
 PI Lodes MJ, Reed SG, Skeiky YAW, Twardzik DR, Vedvick TS;
 XX WPI: 1999-527409/44.

DR N-PSDB; AAZ19371.

XX New antigens from Mycobacterium tuberculosis useful in diagnostic
 PT skin tests and protective or therapeutic vaccines or compositions

XX Example 5; Page 214; 299pp; English.

XX The present invention describes polypeptides comprising an immunogenic
 CC part of a Mycobacterium tuberculosis antigen (Ag). Also described
 CC are vaccines and fusion protein containing M. tuberculosis Ag's.
 CC M. tuberculosis Ag's, DNAs encoding them, derived fusion proteins and
 CC other polypeptides fragments, can be used in pharmaceutical compositions
 CC or vaccines to generate a protective or therapeutic immune response to
 CC M. tuberculosis and as reagents in skin tests for diagnosis of
 CC tuberculosis. Ag can induce proliferation of, or cytokine secretion
 CC by, T, B or natural killer cells and/or macrophages in
 CC tuberculosis-immune subjects. AAZ19249 to AAZ19460 and AAAY39083 to
 CC AAAY39225 are used in the exemplification of the present invention.

XX Sequence 92 AA;

Query Match 56.2%; Score 9; DB 20; Length 92;

Best Local Similarity 100.0%; Pred. No. 0.51;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 AARAAARAE 15
 DE |||||
 Db 39 AARAAARAE 47

RESULT 7

AAAY39036

ID AAAY39036 standard; Protein; 92 AA.

XX AC AAAY39036;

XX 05-NOV-1999 (first entry)
 DT

XX M. tuberculosis recombinant antigen protein MO-4.
 DE Antigen; diagnosis; detection; infection; antibody; immunisation;
 KW vaccine; immunity.

XX Mycobacterium tuberculosis.

XX WO9942118-A2.

XX 26-AUG-1999.

XX 17-FEB-1999; 99WO-US03265.

XX 05-MAY-1998; 98US-0072596.

XX 18-FEB-1998; 98US-0024753.

XX (CORI-) CORIXA CORP.

XX Campos-Neto A, Dillon DC, Hendrickson RC, Houghton R;
 PI Lodes MJ, Reed SG, Skeiky YAW, Twardzik DR, Vedvick TS;
 XX WPI: 1999-527416/44.

XX New polypeptide comprising antigenic portions of M. tuberculosis
 PT Example 5; Page 259; 323pp; English.

XX This invention describes novel recombinant antigens and their encoding
 CC nucleic acids derived from Mycobacterium tuberculosis. The novel
 CC polypeptides are useful for detecting M. tuberculosis infection in a
 CC biological sample by detecting antibodies which bind with the
 CC polypeptides, and are useful as vaccines for immunizing against
 CC M. tuberculosis infection. The new detection methods are needed as
 CC current vaccination strategies do not provide 100% immunity.

XX Sequence 92 AA;

Query Match 56.2%; Score 9; DB 20; Length 92;

Best Local Similarity 100.0%; Pred. No. 0.51;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 AARAAARAE 15
 DE |||||
 Db 39 AARAAARAE 47

RESULT 8

ABU05688

ID ABU05688 standard; Protein; 105 AA.

XX AC ABU05688;

XX 08-APR-2003 (first entry)
 DT

XX M. tuberculosis and M. leprae marker protein #339.

XX Mycobacterioses; survival; virulence; protective antigen; vaccine;
 KW mycobacterial disease; tuberculosis; leprosy.

XX Mycobacterium tuberculosis.

XX Mycobacterium leprae.

XX WO200274903-A2.

XX 26-SEP-2002.

XX 22-FEB-2002; 2002WO-IB01973.

XX 22-FEB-2001; 2001US-270123P.

XX (INSP) INST PASTEUR.
 XX

OY 7 AAARRARAE 15
 DB 31 AAARRARAE 39

RESULT 11

AA08179
 ID AA08179 standard; peptide; 15 AA.

AC AAB08179;

DT 04-DEC-2000 (first entry)

DE Peptide modulating activity of heparin, and other glycans.

KW Glycoaminoglycan; proteoglycan; heparin modulation; anticoagulant;
 KW cell attachment; cell adhesion; vein graft; tumour cell metastasis;
 KW cartilage differentiation; wound healing.

OS Synthetic.

PN WO200045831-A1.

PD 10-AUG-2000.

PF 02-FEB-2000; 2000WO-US02853.

PR 02-FEB-1999; 99US-0118276.

PA (UJJE-) UNIV JEFFERSON THOMAS.

PI San Antonio JD, Varrecchio A, Schick BP;

DR WPI; 2000-543446/49.

PT Novel synthetic peptides with high affinity for glycoaminoglycans and
 PT proteoglycans, useful for modulating heparin, promoting cell
 PT attachment, modulating tumour metastasis and modulating wound healing -
 PS Disclosure; Page 31; 76pp; English.

CC The present sequence represents a synthetic peptide which has a high
 CC affinity for glycoaminoglycans and proteoglycans. The peptide is useful
 CC in methods for modulating heparin or other glycoaminoglycans with
 CC anticoagulant activity, promoting cell attachment or adhesion to
 CC natural or synthetic surfaces (especially vein grafts), modulating
 CC tumour cell metastasis, modulating cartilage differentiation, targeting
 CC drugs to epithelial cell surfaces (or to other cells expressing
 CC proteoglycans), modulating enzymes that act on glycoaminoglycan
 CC substrates, affinity purification of bioactive sequences of a
 CC glycoaminoglycan, modifying endothelial cell pro-coagulant or
 CC anti-coagulant functions mediated through glycoaminoglycans, and
 CC modulating wound healing. The peptide may also be used for blocking
 CC tissue uptake of heparin or other glycoaminoglycans in a mammal to
 CC increase heparin half-life in circulation.

SO Sequence 15 AA;

Query Match 50.0%; Score 8; DB 21; Length 15;

Best Local Similarity 100.0%; Pred. No. 0.92;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 7 AAARRARA 14

DB 1 AAARRARA 8

RESULT 12

AA046667

ID AA046667 standard; Protein; 71 AA.

AC AA046667;

XX

DT 27-FEB-2002 (first entry)

XX Propionibacterium acnes immunogenic protein #7563.

KW SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis;
 KW uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;
 KW inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
 KW dermatological; osteopathic; neuroprotectant.

OS Propionibacterium acnes.

PN WO200181581-A2.

PD 01-NOV-2001.

XX 20-APR-2001; 2001WO-US12865.

PR 21-APR-2000; 2000US-199047P.

PR 02-JUN-2000; 2000US-208841P.

PR 07-JUL-2000; 2000US-216747P.

XX (CORI-) CORIXA CORP.

XX Skeiky YAW, Persing DH, Mitcham JL, Wang SS, Bhatia A;

PI L'maisonneuve J, Zhang Y, Jen S, Carter D;

XX WPI; 2001-616774/71.

DR N-PSDB; AAS59534.

XX Propionibacterium acnes polypeptides and nucleic acids useful for
 PT vaccinating against and diagnosing infections, especially useful for
 PT treating acne vulgaris.

XX Example 1; SEQ ID No 7862; 1069pp; English.

CC Sequences AA039105-AA068017 represent Propionibacterium acnes immunogenic
 CC polypeptides. The proteins and their associated DNA sequences are used in
 CC the treatment, prevention and diagnosis of medical conditions caused by
 CC P. acnes. The disorders include SAPHO syndrome (synovitis, acne,
 CC pustulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis.
 CC P. acnes is also involved in infections of bone, joints and the central
 CC nervous system, however it is particularly involved in the inflammatory
 CC lesions associated with acne vulgaris. A method for detecting the
 CC presence or absence of P. acnes in a patient comprises contacting a
 CC sample with a binding agent that binds to the proteins of the invention
 CC and determining the amount of bound protein in the sample. The
 CC polypeptides may be used as antigens in the production of antibodies
 CC specific for P. acnes proteins. These antibodies can be used to
 CC downregulate expression and activity of P. acnes polypeptides and
 CC therefore treat P. acnes infections. The antibodies may also be used as
 CC diagnostic agents for determining P. acnes presence, for example, by
 CC enzyme linked immunosorbent assay (ELISA).
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.

SO Sequence 71 AA;

Query Match 50.0%; Score 8; DB 22; Length 71;

Best Local Similarity 100.0%; Pred. No. 3.1;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 RAARAAAR 10

DB 17 RAARAAAR 24

RESULT 13

ABJ10474

ID ABJ10474 standard; Protein; 262 AA.

XX ABJ10474;

XX

DT 21-NOV-2002 (first entry)
 DE Breast cancer - CASB7439 related protein SEQ ID No 3.
 XX Cytostatic; gene therapy; vaccine; immunotherapeutic; breast carcinoma;
 KW cancer; immunogen; immunisation; breast tumour; CASB7439.
 KW Homo sapiens.
 OS WO200266506-A2.
 XX 29-AUG-2002.
 XX 15-FEB-2002; 2002WO-EP01649.
 PF 21-FEB-2001; 2001GB-0004259.
 XX (SMIK) SMITHKLINE BEECHAM BIOLOGICALS.
 PA Vinals Y De Bassols C, Cassart J;
 PI WPI; 2002-674914/72.
 XX Use of CASB7439 polypeptides and polynucleotides, their variants,
 PT immunogenic fragments and fusion proteins, for the manufacture of
 PT medicaments for the prophylaxis, treatment and diagnosis of breast
 PT tumors or cancer -
 XX Disclosure; Page 70; 115pp; English.
 PS The invention relates to the use of a human polynucleotide and
 XX polypeptide comprising at least 70 % identity to a 1791 base pair
 CC sequence over its entire length, or to a 193 residue amino acid sequence,
 CC both given in the specification, for the manufacture of a medicament for
 CC immunotherapeutically treating a patient suffering from or susceptible to
 CC breast carcinoma. The polynucleotides and polypeptides are useful as
 CC immunogens for specific prophylactic or therapeutic immunisation against
 CC breast tumours. The polynucleotide of the invention can be used in gene
 CC therapy. This sequence represents a protein related to the CASB7439 -
 CC breast cancer proteins of the invention.
 XX Sequence 262 AA;
 SQ
 Query Match 50.0%; Score 8; DB 23; Length 262;
 Best Local Similarity 100.0%; Pred. No. 8.4;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 RRAARAAA 9
 Db 134 RRAARAAA 141
 RESULT 14
 AAU10338
 ID AAU10338 standard; Protein; 262 AA.
 XX AAU10338;
 AC
 DT 14-FEB-2002 (first entry)
 XX Novel human CASB7439 protein #3.
 DE CASB7439; human; cytostatic; immunosuppressive; vaccine; carcinoma;
 KW colon cancer; tumour; immunoprophylaxis; immune response;
 KW colorectal cancer; immunogenic; autoimmune disease.
 XX Homo sapiens.
 OS
 XX WO200162778-A2.
 PN 30-AUG-2001.
 PD 16-FEB-2001; 2001WO-EP01779.
 PF

XX 23-FEB-2000; 2000GB-0004269.
 PR 20-APR-2000; 2000GB-0009905.
 PR 25-AUG-2000; 2000GB-0021080.
 XX (SMIK) SMITHKLINE BEECHAM BIOLOGICALS.
 PA Cabazon-Silva TEV, Cassart J, Coche T, Gaulis SRJ;
 XX Vinals De Bassols YC;
 PI WPI; 2002-041150/05.
 DR N-PSDB; AAS14990.
 DR Novel isolated CASB7439 polypeptide useful in diagnostics, and as
 XX vaccines for prophylactic and therapeutic treatment of cancers,
 PT particularly colorectal cancers, autoimmune diseases and related
 PT conditions -
 XX Claim 7; Page 71; 101pp; English.
 PS The invention relates to a novel isolated CASB7439 polypeptide (I).
 XX (I), and its related polynucleotide (II) are useful in the manufacture of
 CC a vaccine for immunotherapeutically treating a patient suffering from or
 CC susceptible to carcinoma, preferably colon cancer or other colon-
 CC associated tumours or diseases. (I), (II), and antibody to (I) are
 CC useful for the treatment of a subject by immunoprophylaxis or therapy
 CC by in vitro induction of immune responses to (I), preferably for
 CC the treatment of colorectal cancer. An immunogenic composition
 CC comprising (I) is useful in medicine and for inducing an immune response
 CC against human CASB7439 polypeptide. (I) is useful as an immunogen to
 CC produce antibodies immunospecific for (I), to identify membrane bound or
 CC soluble receptors, and in a method for the structure-based design of an
 CC agonist, antagonist or inhibitor of (I). (I) or (II) can be used in
 CC diagnostics, and for prophylactic and therapeutic treatment of autoimmune
 CC diseases and related conditions. (I) or (II) is useful for inducing, re-
 CC enforcing or modulating an immune response in a mammal. (II) is useful as
 CC hybridisation probes for cDNA and genomic DNA or as primers for a
 CC nucleic acid amplification (PCR) reaction, to isolate full-length cDNAs
 CC and genomic clones encoding (I). (II) is useful for staging cancerous
 CC cancerous disorders and grading the nature of the cancerous tissue, and
 CC for chromosome localisation. Antibody to (I) is useful to isolate or
 CC identify clones expressing (I), to purify (I), and to prevent or treat
 CC cancer, particularly colorectal cancer, autoimmune disease and related
 CC conditions. The present sequence represents the amino acid sequence
 CC of human CASB7439 polypeptide #3 as described in the invention.
 XX Sequence 262 AA;
 SQ
 Query Match 50.0%; Score 8; DB 23; Length 262;
 Best Local Similarity 100.0%; Pred. No. 8.4;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 RRAARAAA 9
 Db 134 RRAARAAA 141
 RESULT 15
 AAEE33614
 ID AAEE33614 standard; Protein; 262 AA.
 XX AAEE33614;
 AC
 DT 16-APR-2003 (first entry)
 XX Human CASB7439 protein #2.
 DE CASB7439 protein; lung cancer; NSCLC; squamous epidermoid carcinoma;
 KW SCLC; adenocarcinoma; large cell carcinoma; carcinoid; mesothelioma;
 KW cytostatic; bronchial gland tumour; human.
 XX Homo sapiens.
 OS

PN WO200292627-A2.
 XX 21-NOV-2002.
 XX 07-MAY-2002; 2002WO-EP05011.
 XX 16-MAY-2001; 2001GB-0011974.
 XX (GLAX) GLAXOSMITHKLINE BIOLOGICALS SA.
 XX Coche T, Gaulis SRJ, Vinals De Bassols YC;
 XX WPI; 2003-120647/11.
 XX N-PSDB; AAD51534.
 XX
 PT Use of a CASB7439 polynucleotide or polypeptide for manufacturing a
 PT medicament for immunotherapeutically preventing or treating a patient
 PT suffering from or susceptible to preneoplastic lesions of lung cancer
 PT and lung cancer
 XX
 PS Disclosure; Column 74-75; 55pp; English.
 XX
 CC The invention relates to use of CASB7439 sequences for manufacturing a
 CC medicament for immunotherapeutically preventing or treating a patient
 CC suffering from or susceptible to preneoplastic lesions of lung cancer,
 CC and lung cancer and methods for diagnosing lesions. CASB7439 sequences
 CC are useful for manufacturing a medicament for treating preneoplastic
 CC lesions of lung cancer and lung cancer, such as SCLC, NSCLC (e.g. large
 CC cell (undifferentiated) carcinoma), squamous (epidermoid) carcinoma,
 CC carcinoids, adenocarcinoma (including bronchoalveolar), bronchial gland
 CC tumours or mesotheliomas. CASB7439 DNA is used in gene therapy. The
 CC present sequence is human CASB7439 protein.
 XX
 SQ Sequence 262 AA;
 Query Match 50.0%; Score 8; DB 24; Length 262;
 Best Local Similarity 100.0%; Pred. No. 8.4;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 RRAA AAA 9
 |||||
 Db 134 RRAA AAA 141
 Search completed: August 9, 2003, 16:29:07
 Job time : 46.2571 secs